

Appl. No. 10/782,259
Amdt. dated November 3, 2005
Reply to Office Action of October, 2005

AMENDMENTS TO THE CLAIMS

This listing and version of the claims replace all prior listing and versions of the claims.

Claims 1-5 and 9-20 are cancelled. Claims 7 and 8 are amended. Claims 21-37 are newly added.

Listing of Claims:

1-5. (cancelled)

6. (original) A sealant region for encapsulating at least one display device, the sealant region comprising:

a plurality of parallel openings in a first material layer on a first substrate to expose a second material layer underneath; and

a predetermined sealant placed thereon to form the sealant region perpendicular to the openings for attaching a second substrate,

wherein the sealant contacts the first material layer and the second material layer through the openings for encapsulating the display device between the first and second substrates, and

wherein the sealant has substantially flat contact surfaces with the first and second material layers.

7. (currently amended) The method sealant region of claim 6 wherein the openings have a uniform width.

8. (currently amended) The method sealant region of claim 6 wherein the first material layer is an organic polymer layer and the second material layer is a passivation layer.

9-20. (cancelled)

Appl. No. 10/782,259
Amdt. dated November 3, 2005
Reply to Office Action of October, 2005

21. (new) The sealant region of claim 6, wherein the first material layer is an organic polymer layer.

22. (new) The sealant region of claim 6, wherein the second material layer is a dielectric layer.

23. (new) A display device, comprising:

a device substrate;

a shield substrate on the device substrate, comprising a sealant region having one or more openings having a pattern in a first material layer on a first substrate to expose a second material layer underneath; and

a sealant in the openings for joining a second substrate with the first substrate.

24. (new) The display device of claim 23, wherein the sealant in the openings is balanced along a center axis of the sealant region.

25. (new) The display device of claim 23, wherein the openings have a uniform width.

26. (new) The display device of claim 23, wherein a width of the openings is narrower than a total width of the sealant region.

27. (new) The display device of claim 23, wherein the first material layer is an organic polymer layer and the second material is a dielectric layer.

28. (new) The display device of claim 23, wherein the pattern comprises a plurality of parallel openings.

29. (new) The display device of claim 23, wherein the pattern comprises a plurality of openings arranged in a saw-teeth form.

30. (new) The display device of claim 29, wherein the openings are arranged in a modified saw teeth form to avoid sharp angles formed by any two openings.

Appl. No. 10/782,259
Amdt. dated November 3, 2005
Reply to Office Action of October, 2005

31. (new) The display device of claim 23, wherein the pattern comprises a plurality of openings arranged in a zip-shape form.

32. (new) A display device, comprising:

a device substrate;

a shield substrate on the device substrate, comprising a sealant region having at least one opening having a saw-teeth pattern in an organic material layer on a first substrate to expose a material layer underneath; and

a sealant in the opening for attaching a second substrate with the first substrate.

33. (new) The display device of claim 32, wherein the sealant in the opening is balanced along a center axis of the sealant region.

34. (new) The display device of claim 32, wherein the opening has a uniform width along a plurality of segments thereof.

35. (new) The display device of claim 32, wherein a width of the opening is narrower than a total width of the sealant region.

36. (new) The display device of claim 32, wherein the material layer comprises a passivation layer.

37. (new) The display device of claim 32, wherein the opening is arranged in a modified saw teeth form to avoid sharp angles formed by any two openings.